

Title (en)
Centrifugal separator

Title (de)
Tellerseparator

Title (fr)
Séparateur centrifuge

Publication
EP 1772193 B1 20080402 (DE)

Application
EP 05109391 A 20051010

Priority
EP 05109391 A 20051010

Abstract (en)
[origin: EP1772193A1] An improved oil separator for a crankcase breather system for an IC engine has the topmost disc (4') of a stack of rotating separator discs (4) fitted with vanes (11) on the upper surface to create a backflow airstream into the oil collecting space (6) and thereby prevent oil creep past the separator into the clean air collecting space (7). The backflow vane creates a quasi aerodynamic barrier eliminating the need for mechanical seals which have a high rate of wear at the fast speeds of the rotor separator.

IPC 8 full level
B04B 5/00 (2006.01); **B01D 45/14** (2006.01); **F01M 13/04** (2006.01)

CPC (source: EP)
B01D 45/14 (2013.01); **B04B 5/12** (2013.01); **F01M 13/04** (2013.01); **B04B 2005/125** (2013.01)

Cited by
US9512755B2; CN104606965A; CN108554017A; CN112128033A; DE102013207058A1; CN102821866A; US2013067873A1; US8840697B2; US10130957B2; WO2011126436A1; WO2009108046A1; WO2014170192A1; DE102017206181A1; WO2018188908A1

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